



## Sizing and Selection Chart

### 25P, 25PE, 25PA, and all Combinations

Inlet Steam Pressure psig	Outlet Steam Pressure psig	NOMINAL VALVE SIZE									
		1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
	C.V. Factors $\bar{I}$	3.48	6.5	10.5	14	20	35	56	74	115	260
15	10	95	175	285	380	540	950	1,500	2,000	3,100	7,000
	5	135	250	405	545	780	1,365	2,185	2,890	4,480	10,170
	3	155	285	465	620	880	1,550	2,470	3,260	5,080	11,440
20	12	120	230	365	490	700	1,225	1,960	2,590	4,025	9,100
	8	155	290	470	630	900	1,575	2,520	3,330	5,175	11,700
	0-5	180	335	540	720	1,025	1,795	2,870	3,790	5,895	13,325
25	15	145	270	435	580	830	1,450	2,325	3,070	4,770	10,790
	10	195	360	580	775	1,110	1,950	3,110	4,110	6,385	14,430
	0-7	205	385	620	825	1,180	2,065	3,305	4,360	6,785	15,340
30	20	155	290	470	630	900	1,575	2,520	3,330	5,175	11,700
	15	220	410	665	890	1,270	2,220	3,555	4,700	7,300	16,510
	0-12	230	430	695	925	1,320	2,310	3,695	4,885	7,590	17,160
40	30	155	290	470	630	900	1,575	2,520	3,330	5,175	11,700
	25	250	470	755	1,010	1,440	2,520	4,030	5,330	8,280	18,720
	0-18	280	525	850	1,135	1,620	2,835	4,535	5,995	9,315	21,060
50	40	190	355	575	770	1,100	1,925	3,080	4,070	6,325	14,300
	30	315	585	955	1,275	1,820	3,185	5,095	6,735	10,465	23,660
	0-21	350	650	1,050	1,400	2,000	3,500	5,600	7,400	11,500	26,000
60	45	280	520	840	1,120	1,600	2,800	4,480	5,920	9,200	20,800
	35	360	670	1,080	1,440	2,060	3,605	5,770	7,620	11,845	26,780
	0-27	385	720	1,165	1,555	2,220	3,885	6,215	8,215	12,765	28,860
75	60	280	525	850	1,135	1,620	2,835	4,535	5,995	9,315	21,060
	50	415	775	1,250	1,665	2,380	4,165	6,665	8,800	13,685	30,940
	0-35	470	875	1,415	1,890	2,700	4,725	7,560	9,990	15,525	35,100
85	70	290	540	870	1,160	1,660	2,905	4,650	6,140	9,545	21,580
	50	490	915	1,480	1,965	2,820	4,935	7,895	10,435	16,215	36,660
	0-43	515	960	1,555	2,070	2,960	5,180	8,290	10,950	17,020	38,480
100	80	370	690	1,115	1,485	2,120	3,710	5,935	7,845	12,190	27,560
	60	580	1,080	1,740	2,325	3,320	5,810	9,295	12,285	19,090	43,160
	0-48	600	1,120	1,815	2,420	3,460	6,055	9,690	12,800	19,895	45,000
125	100	440	825	1,335	1,780	2,540	4,445	7,110	9,400	14,600	33,000
	80	680	1,275	2,060	2,745	3,920	6,860	10,975	14,500	22,540	50,960
	0-62	730	1,365	2,200	2,940	4,200	7,350	11,760	15,540	24,150	54,600
150	125	490	910	1,470	1,960	2,800	4,900	7,840	10,360	16,100	36,400
	100	800	1,490	2,400	3,205	4,580	8,015	12,825	16,945	26,335	59,540
	0-76	860	1,600	2,590	3,460	4,940	8,645	13,830	18,280	28,400	64,220
175	150	490	915	1,480	1,975	2,820	4,935	7,895	10,435	16,125	36,660
	125	870	1,630	2,635	3,515	5,020	8,785	14,055	18,570	28,865	65,260
	0-87	985	1,840	2,970	3,960	5,660	9,900	15,850	20,950	32,545	73,580
200	150	840	1,600	2,540	3,390	4,840	8,470	13,550	17,900	27,830	65,920
	125	1,075	2,000	3,240	4,330	6,180	10,815	17,300	22,870	35,530	80,340
	0-103	1,125	2,100	3,390	4,520	6,460	11,300	18,000	23,900	37,145	83,980
225	175	840	1,650	2,670	3,560	5,080	8,890	14,225	18,800	29,210	66,000
	150	1,160	2,180	3,500	4,660	6,660	11,655	18,650	24,640	38,300	86,600
	0-117	1,250	2,340	3,780	5,000	7,200	12,600	20,160	26,640	41,400	93,600
250	200	925	1,730	2,790	3,720	5,320	9,300	14,900	19,680	30,600	69,200
	150	1,340	2,500	4,050	5,400	7,720	13,500	21,600	28,600	44,400	100,360
	0-131	1,385	2,590	4,180	5,570	7,960	13,930	22,300	29,450	45,800	103,500
*273	225	880	1,640	2,650	3,530	5,050	8,830	14,130	18,670	29,000	
	200	1,240	2,320	3,750	4,990	7,130	12,480	19,960	26,400	41,000	
	0-145	1,510	2,830	4,570	6,090	8,700	15,230	24,360	32,200	50,000	
*300	250	920	1,720	2,780	3,700	5,290	9,250	14,800	19,600	30,400	
	225	1,250	2,330	3,770	5,020	7,170	12,550	20,100	26,500	41,300	
	0-160	1,640	3,070	4,960	6,600	9,440	16,520	26,400	34,900	54,300	

Capacities are based on an accuracy regulation of 1 PSI and with pipe sizes to insure reasonable velocities. Refer to pipe sizing chart. \* Cast steel construction required for service above 250 psig

Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.

In the interests of development and improvement of the product, we reserve the right to change the specification.

TI-3-030-US 05.03

# Sizing and Selection Chart

## 25P, 25PE, 25PA, and all Combinations

**Capacities** pounds of saturated steam per hour for reduced port valve sizes for lower steam velocities

Inlet Steam Pressure psig	Outlet Steam Pressure psig	NOMINAL VALVE SIZE									
		1/2"S	3/4"S	1"S	1-1/4"S	1-1/2"S	2"S	2-1/2"S	3"S	4"S	6"S
	C.V. Factors $\bar{I}$	1.16	2.4	4.6	6.5	11.6	18.5	26	37	64	185
15	10	30	65	125	175	315	505	695	1,000	1,730	5,000
	5	45	95	175	250	450	720	1,015	1,440	2,500	7,200
	3	50	110	205	285	510	820	1,150	1,630	2,795	8,125
20	12	40	85	160	230	405	650	920	1,300	2,225	6,460
	8	50	110	210	290	520	825	1,170	1,655	2,825	8,300
	0-5	60	125	235	335	600	955	1,330	1,915	3,265	9,460
25	15	50	100	190	270	485	770	1,085	1,540	2,630	9,080
	10	65	135	255	360	640	1,025	1,435	2,040	3,550	10,250
	0-7	70	145	270	385	685	1,090	1,555	2,210	3,775	11,000
30	20	50	110	210	290	520	825	1,170	1,655	2,825	8,300
	15	75	150	290	410	735	1,175	1,660	2,350	4,000	11,725
	0-12	80	160	305	430	760	1,220	1,715	2,435	4,225	12,185
40	30	50	110	210	290	520	825	1,170	1,655	2,825	8,300
	25	85	175	335	470	835	1,360	1,870	2,665	4,640	13,300
	0-18	95	200	370	525	935	1,500	2,100	2,985	5,185	14,960
50	40	65	130	250	355	640	1,105	1,430	2,085	3,565	10,150
	30	105	220	420	585	1,045	1,670	2,350	3,330	5,825	16,800
	0-21	115	240	460	650	1,130	1,850	2,600	3,700	6,400	18,470
60	45	95	200	370	520	940	1,500	2,110	3,000	5,125	14,775
	35	125	250	475	670	1,195	1,900	2,760	3,810	6,590	19,000
	0-27	130	270	510	720	1,290	2,065	2,885	4,125	7,105	20,500
75	60	95	200	370	525	935	1,500	2,100	2,985	5,185	14,960
	50	140	290	545	775	1,380	2,210	3,155	4,475	7,655	22,000
	0-35	155	330	620	875	1,565	2,500	3,495	4,950	8,640	24,950
85	70	100	210	395	540	960	1,590	2,160	3,070	5,415	15,330
	50	165	350	655	915	1,660	2,650	3,735	5,295	9,045	26,000
	0-43	170	360	680	960	1,710	2,735	3,850	5,460	9,475	27,300
100	80	120	255	490	690	1,230	1,960	2,735	3,880	6,780	19,570
	60	190	400	755	1,080	1,900	3,050	4,315	6,140	10,600	30,650
	0-48	200	420	800	1,120	2,000	3,200	4,480	6,350	11,000	31,900
125	100	145	300	585	825	1,470	2,350	3,365	4,765	8,140	23,450
	80	230	480	905	1,275	2,280	3,645	5,115	7,250	12,500	36,150
	0-62	245	510	965	1,365	2,435	3,900	5,535	7,850	13,420	38,760
150	125	160	335	645	910	1,625	2,590	3,640	5,270	9,000	25,850
	100	265	555	1,050	1,490	2,645	4,230	5,930	8,415	14,650	42,300
	0-76	285	580	1,140	1,600	2,870	4,590	6,420	9,140	15,800	45,600
175	150	165	350	655	915	1,660	2,650	3,775	5,295	9,045	26,000
	125	290	600	1,160	1,630	2,915	4,665	6,550	9,285	15,900	46,350
	0-87	330	680	1,310	1,840	3,300	5,270	7,410	10,500	18,000	52,270
200	150	285	580	1,125	1,600	2,850	4,480	6,290	9,060	15,450	44,690
	125	360	740	1,420	2,000	3,570	5,725	8,015	11,350	19,700	57,000
	0-103	375	780	1,485	2,100	3,740	5,990	8,390	11,875	20,670	59,600
225	175	290	605	1,170	1,625	2,945	4,700	6,600	9,400	16,200	46,850
	150	390	810	1,540	2,180	3,885	6,200	8,715	12,350	21,300	61,500
	0-117	420	875	1,655	2,340	4,175	6,680	9,375	13,300	23,000	66,450
250	200	310	640	1,250	1,730	3,100	4,920	6,920	9,840	17,000	49,150
	150	450	935	1,775	2,500	4,465	7,155	10,000	14,200	24,700	71,250
	0-131	460	970	1,830	2,590	4,615	7,395	10,300	14,725	25,450	73,500
*275	225	290	610	1,160	1,640	2,930	4,670	6,560	9,335	16,150	
	200	415	855	1,640	2,320	4,140	6,600	9,275	13,200	22,830	
	0-145	505	1,040	2,000	2,830	5,050	8,050	11,310	16,100	27,840	
*300	250	310	635	1,220	1,720	3,070	4,890	6,870	9,780	18,900	
	225	415	860	1,650	2,330	4,160	6,640	9,330	13,270	22,900	
	0-160	550	1,130	2,170	3,070	5,475	8,730	12,270	17,460	30,200	

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\* Cast steel construction required for service above 250 psig

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